

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F02M25/00 F04B13/00 F04B17/03

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02M F01N F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 756 456 A (GEORGI) 4 September 1973 (1973-09-04)	1-3,6
Y	the whole document	4,5,7-9
Y	DE 199 06 482 C (COPARA AG VADUZ) 7 September 2000 (2000-09-07) column 1, line 45 - column 2, line 52; figures 1-4	4,5
Y	US 4 449 650 A (SAWATZKI) 22 May 1984 (1984-05-22) column 3, line 41 - line 52; figure 1	7,8
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

2 December 2004

Date of mailing of the international search report

09/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Van Zoest, A

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2004/052022

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 December 1995 (1995-12-26) & JP 7 224734 A (TOYOTA MOTOR CORP), 22 August 1995 (1995-08-22) abstract; figure 1 -----	9
X	EP 1 132 616 A (BMO TREUHAND UND VERWALTUNG AG) 12 September 2001 (2001-09-12) the whole document -----	1,3,6-8
X	DE 36 00 341 A (SAPHIRWERK IND PROD) 9 July 1987 (1987-07-09) the whole document -----	1-3,5,7
A	EP 0 614 002 A (RHONE POULENC CHIMIE) 7 September 1994 (1994-09-07) the whole document -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/052022

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3756456	A	04-09-1973	CA 993083 A1 DE 2325902 A1 FR 2185790 A1 JP 49051980 A JP 57049849 B US RE29495 E	13-07-1976 13-12-1973 04-01-1974 20-05-1974 25-10-1982 13-12-1977
DE 19906482	C	07-09-2000	DE 19906482 C1	07-09-2000
US 4449650	A	22-05-1984	NONE	
JP 7224734	A	22-08-1995	NONE	
EP 1132616	A	12-09-2001	EP 1132616 A1 AU 3530201 A WO 0166944 A1 EP 1266139 A1 JP 2003526049 T US 2003113218 A1	12-09-2001 17-09-2001 13-09-2001 18-12-2002 02-09-2003 19-06-2003
DE 3600341	A	09-07-1987	DE 3600341 A1 EP 0228628 A2 JP 62165586 A US 4808092 A	09-07-1987 15-07-1987 22-07-1987 28-02-1989
EP 0614002	A	07-09-1994	FR 2702009 A1 AT 141386 T AU 668456 B2 AU 5526594 A BR 9400645 A CA 2115803 A1 DE 69400365 D1 DE 69400365 T2 DK 614002 T3 EP 0614002 A1 ES 2093492 T3 GR 3021471 T3 HU 71757 A2 JP 2548898 B2 JP 6257516 A KR 9708661 B1 MX 9401329 A1 US 5421295 A	02-09-1994 15-08-1996 02-05-1996 01-09-1994 27-09-1994 24-08-1994 19-09-1996 20-02-1997 09-12-1996 07-09-1994 16-12-1996 31-01-1997 29-01-1996 30-10-1996 13-09-1994 28-05-1997 31-08-1994 06-06-1995